

# BERRYESSA SNOW MOUNTAIN NATIONAL MONUMENT INTERDISCIPLINARY TEAM ANALYSIS CHECKLIST

Project Title: Deer Valley Meadow Enhancement Project

Project Leader (Name, Title): Hilda Kwan, District Hydrologist

NEPA Reference Number: \_\_\_\_\_ Land Management Agency (USFS or BLM): USFS

**Interdisciplinary Review Team (IDT) Determination:** (Choose one abbreviated option for the left column.)

- **Not Present (NP)** = Potential effect is not present in the area impacted by the proposed or alternative actions. No further documentation is required. No "Rationale for Determination" is required for column three.
- **Negligible Impact (NI)** = Potential effect is present, but not affecting the resource to a degree that detailed analysis is required. A Categorical Exclusion (CX/CE) may be used and/or potential effect is included in an existing Programmatic Agreement (PA). Provide a brief "Rationale for Determination" in column three. Additional documentation may be required for CX/CE, State Historic Preservation Office and/or tribal consultation.
- **Potential Impact (PI)** = Potential effect is present and impacts should be analyzed in detail. Provide a brief "Rationale for Determination" in column three. Additional analysis will form the basis for an Environmental Analysis (EA), a Determination of NEPA Adequacy (DNA), or an Environmental Impact Statement (EIS).

Determination (NP, NI or PI)	Resource	Rationale for Determination (ex. may affect, not likely to adversely affect; project parameters limit potential for adverse effects, reference to biological assessment, hydrology report, etc.)	IDT Initials	Review Date
NI	CULTURAL RESOURCES	<p>Cultural resources have been identified within the Deer Valley project area. Project activities will not adversely affect these cultural resources as long as Standard Protection Measures are followed.</p> <p>Piling slash within cultural resource sites is not permitted as the introduction of concentrated fire can damage historic artifacts and reset obsidian hydration values.</p> <p>Consultation with local Tribes will identify any other potentially significant resources such as traditional gathering areas, spiritual locations or other significant tribal locations.</p> <p>If new archaeological resources are located during project implementation, project activities will halt until the district archaeologist can assess the situation.</p>	MAD	02/20/2020

CULTURAL RESOURCE OBJECTS:			CULTURAL RESOURCE VALUES:	
<ol style="list-style-type: none"> <li>1. Distinct Cultures of Indigenous Peoples               <ol style="list-style-type: none"> <li>a. Material remains of ancient cultures and settlements                   <ol style="list-style-type: none"> <li>i. Mineral collection sites / quarries                       <ol style="list-style-type: none"> <li>1. Flaked tools</li> </ol> </li> <li>ii. Seasonal hunting and gathering camps</li> </ol> </li> <li>b. Resources associated with traditional lifeways and culturally important places</li> </ol> </li> <li>2. European Exploration and Settlement               <ol style="list-style-type: none"> <li>1. Material remains of European exploration and settlement                   <ol style="list-style-type: none"> <li>i. Remnants of small sawmills.</li> </ol> </li> </ol> </li> </ol>			<ol style="list-style-type: none"> <li>1. Cultural Legacies               <ol style="list-style-type: none"> <li>1. The Monument's landscape and resources retain deep cultural significance for modern Native communities.</li> <li>2. The Monument's landscape and resources continue to support traditional lifeways for modern Native communities.</li> <li>3. Traditional Ecological Knowledge</li> <li>4. Ranching, logging, and mining family history and legacies</li> </ol> </li> </ol>	
NI	GEOLOGIC RESOURCES	<p>There are no identified cave resources in the project area.</p> <p>There are no known serpentine soils in the project area.</p> <p>There would be negligible effects on fossil resources as there are no known fossil localities in the project area.</p> <p>Proposed meadow protection infrastructure and activities within and around the meadow are anticipated to beneficially increase groundwater quality and quantity. This in turn would benefit groundwater dependent ecosystems.</p> <p>The project does not include the Snow Mountain and Bartlett Springs Fault Zone areas.</p> <p>Native American mineral collection sites are covered by the Cultural Resources section of this table.</p>	RPM	8/26/2019
GEOLOGIC RESOURCE OBJECTS:			GEOLOGIC RESOURCE VALUES:	
<ol style="list-style-type: none"> <li>1. A Dynamic Geologic Story               <ol style="list-style-type: none"> <li>a. Geologic Landmarks and Features                   <ol style="list-style-type: none"> <li>i. Caves</li> <li>ii. Serpentine soils</li> <li>iii. Seeps, springs and sag ponds</li> <li>iv. Fossils</li> <li>v. Snow Mountain</li> <li>vi. Bartlett Springs fault zone</li> <li>vii. Native American mineral collection sites</li> </ol> </li> </ol> </li> </ol>			<ol style="list-style-type: none"> <li>1. Geologic Landmarks and Features               <ol style="list-style-type: none"> <li>a. Study and interpretation of geologic features and geologic influence on the NM's natural and cultural landscapes.</li> <li>b. Unique landscapes and climatic micro-regions</li> <li>c. Historic and pre-historic cultural significance and lore</li> <li>d. Unique plant communities</li> </ol> </li> </ol>	



Determination (NP, NI or PI)	Resource	Rationale for Determination (ex. may affect, not likely to adversely affect; project parameters limit potential for adverse effects, reference to biological assessment, hydrology report, etc.)	IDT Initials	Review Date
NI	<b>HYDROLOGIC RESOURCES</b>	<p>Mechanical equipment will not be used for this project. This project was designed to benefit hydrologic resources by reducing streambank erosion and allowing water to flow unobstructed.</p> <p>The project will not affect any floodplains, and no FEMA 100 year flood plains located in the project area. Rock Creek that runs through Deer Valley is intermittent. There are no perennial streams within the project area.</p> <p>The project area is not within a municipal watershed and does not contribute to any municipal water withdrawal(s).</p> <p>Riparian Reserves - this project will have no potential for significant impacts on stream temperature. The use of Best Management Practices and project design features will help lessen or eliminate effects from the project.</p>	HK	8/20/19
<b>HYDROLOGIC RESOURCE OBJECTS:</b> <b>1. Water Resources</b> a. Crucial Element i. Ponds, streams and rivers 1. Rock Creek ii. Seeps, springs and sag ponds 1. Deer Valley Meadow		<b>HYDROLOGIC RESOURCE VALUES:</b> 1. Water Resources a. Biological corridors b. Ground-water dependent ecosystems c. Resilience to climate change impacts		
NI (native fish, wildlife)	<b>ENDEMISM, BIODIVERSITY AND RESEARCH INTERESTS</b>	<p>To protect native fish and aquatic invertebrates (which are down stream of the project area) design features such as Best Management Practices will be utilized. Since all work will be done by hand, there would not be any noise disturbance to the Northern Spotted Owls and any potential nearby roosting bats.</p> <p>There are no affects to other species.</p>	CMH JA	2/27/2019
NI (botanical resources)	<b>ENDEMISM, BIODIVERSITY AND RESEARCH INTERESTS</b>	<p>There are no FS Sensitive plant species within the project area.</p>	JSH	6/5/2019

**ENDEMISM, BIODIVERSITY AND RESEARCH OBJECTS:**

1. Endemism, biodiversity, and areas of research interest
  - a. Riparian habitat
    - i. Riparian-dependent bird species
  - b. Aquatic habitat and associated species
    - i. Streams, ponds, and rivers
      1. Native fish, including salmonids
    - ii. Ponds and seeps
      1. Aquatic plants, amphibians, and invertebrates
  - c. Terrestrial habitat
    - i. A variety of mammals, reptiles, raptors, neotropical birds, and insect species

**ENDEMISM, BIODIVERSITY AND RESEARCH VALUES:**

1. Endemism, Biodiversity, and Areas of Research Interest
  - a. Complex mosaic of native grasslands, picturesque oak woodlands, rare wetlands and wild chaparral
  - b. Essential habitat for native plants, fish, birds, reptiles, amphibians, and insects.
  - c. Biological corridors
  - d. Unique plant communities
  - e. Botanical, ecological and evolutionary research
  - f. Ecological Research, including past studies of climate change, range shifts and isolated species during Pleistocene changes in climate and post-fire succession.

Resource specialists from Mendocino National Forest and the Ukiah BLM Field Office conducted an interdisciplinary review team assessment to identify the resources, objects and values contained within Presidential Proclamation that established Berryessa Snow Mountain National Monument. These resources, objects and values are listed in the table above. Resource specialists from the federal agency (USFS or BLM), who manages lands for this proposed action, have reviewed the proposed action in accordance with the policies and procedures set forth by that agency.



Project Leader

3/2/2020

Date



District Ranger

3/2/20

Date



Berryessa Snow Mountain National Monument Manager

2/25/2020

Date